

## Ez-S316-3D-Scanner Quick User Guide

Ez-S316-3D-Scanner is a MS Windows application that provides a GUI Interface to real-time display the depth map, RGB image, and color point cloud from the EzS316, a Sony TOF based (RGBD) camera.



Fig 1 EzS316 RGBD camera

### Download the codes

<https://github.com/kevinliu-ez/Ez-S316-3d-scanner>

### Setup:

- Hardware:
  - a. Plug the USB DC power supply into a power outlet.
  - b. Connect a USB 3.0 cable from the EzS316 RGBD camera device to your MS Windows computer.
  - c. Connect a USB 2.0 cable from the USB DC power supply to the EzS316 RGBD camera device.

The current configuration of the device is optimized for static scenes, a tripod is recommended for holding the device.

- Software:
  - a. Install the MS Visual C++ Redistributable for Visual Studio 2015 (If necessary).
  - b. Run Ez-S316-3DScanner.exe in the folder: \Ez-S316-3D-Scanner.

### Usage:

Please run the application located at '**Ez-S316-3D-Scanner\Ez-S316-3DScanner.exe**'. The Ez-S316-3D Scanner is a GUI Interface to real-time display the depth map, RGB image, and 3D point cloud from the EzS316 RGBD camera device.

Referring to Fig 2, the GUI can be separated to 3 parts: camera control user interface, message, and display area.

- In camera control area, user can "Connect/Stop" the camera,
- "Enable/Disable" ORB-SLAM2 and 3D point cloud display functions, using bounding box user interface to control the 3D point cloud display area,
- using "3D scan" to scan the object and save the 3D Point Cloud.

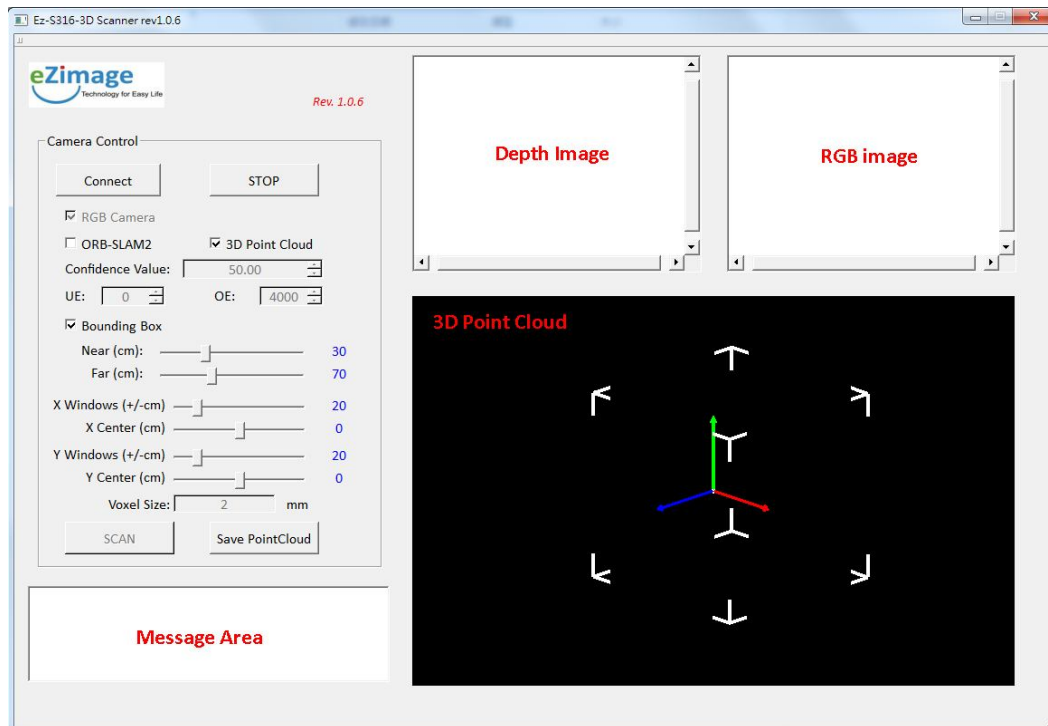


Fig 2 Ez-S316 3D Scanner GUI Interface

### Connect the Camera

Push “Connect” button, the EzS316 RGBD camera 3D Camera will be linked automatically, after link, the depth and RGB image will be real-time displayed in depth and RGB window. If the “3D point cloud” has been checked, the 3D point cloud with RGB+D fusion will be displayed in 3D window.

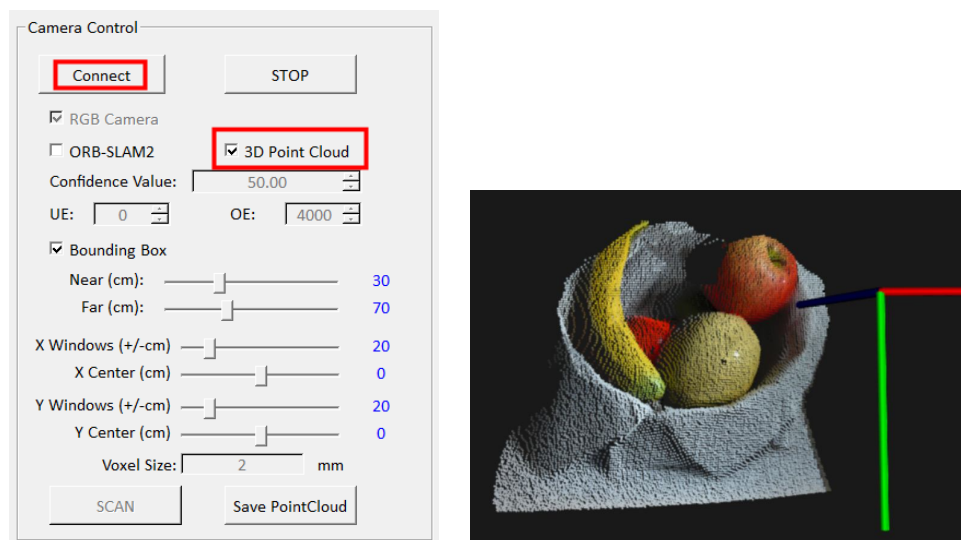


Fig 3 Connect the Camera

## **Bounding Box**

User can using the slider bar to control the 3D point cloud display area in X/Y/Z direction. In 3D window, a white cubic frame will also interact in real-time when user slide the slider bar.

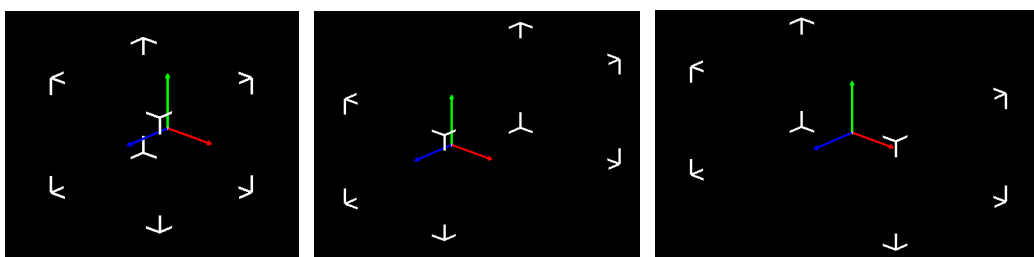
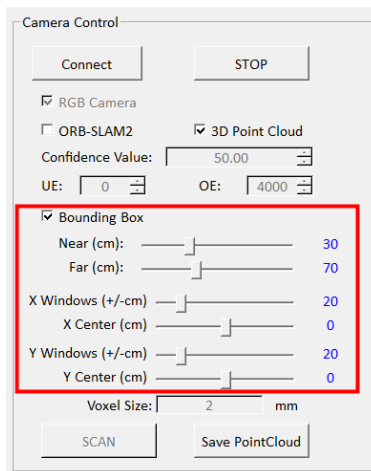


Fig 4 Bounding Box control

## **Stop Camera**

Push "STOP" button to disconnect the EzS316 RGBD camera 3D Camera.

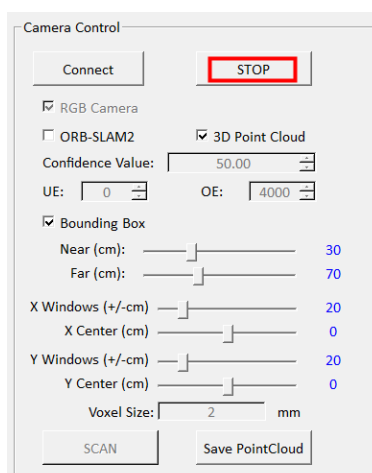


Fig 5 Stop Camera

## **Contact information**

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